1. A compound of the following formula:

$$R^{10}$$
 R^{10}
 R

3 wherein

2

- 4 R³ is hydrogen, amino, carboxyl, oxo, halo, sulfonic acid, -O-sulfonic acid, or
- 5 alkyl that is optionally inserted with -NH-, -N(alkyl)-, -O-, -S-, -SO-, -SO₂-, -O-SO₂-, -
- 6 SO₂-O-, -O-SO₃-, -SO₃-O-, -CO-, -CO-O-, -O-CO-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-,
- 7 or -N(alkyl)-CO-, and further optionally substituted with hydroxy, halo, amino, carboxyl,
- 8 sulfonic acid, or -O-sulfonic acid;
- 9 each of R^1 , R^2 , R^4 , R^4 , R^6 , R^7 , R^{11} , R^{12} , R^{15} , R^{16} , and R^{17} , independently, is
- 10 hydrogen, hydroxy, amino, carboxyl, oxo, halo, sulfonic acid, -O-sulfonic acid, or alkyl
- that is optionally inserted with -NH-, -N(alkyl)-, -O-, -S-, -SO-, -SO₂-, -O-SO₂-, -SO₂-O-,
- 12 -O-SO₃-, -SO₃-O-, -CO-, -CO-O-, -O-CO-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-, or -
- 13 N(alkyl)-CO-, and further optionally substituted with hydroxy, halo, amino, carboxyl,
- 14 sulfonic acid, or -O-sulfonic acid;
- each of R⁵, R⁸, R⁹, R¹⁰, R¹³, and R¹⁴, independently, is hydrogen, alkyl, haloalkyl,
- 16 hydroxyalkyl, alkoxy, hydroxy, or amino;
- 17 R^{17} is -X-Y-Z, in which X is a bond, or alkyl or alkenyl, optionally inserted with -
- NH-, -N(alkyl)-, -O-, or -S-, and further optionally forming a cyclic moiety with R¹⁶ and
- 19 the 2 ring carbon atoms to which R¹⁶ and R¹⁷ are bonded; Y is -CO-, -SO-, -SO₂-, -O-
- 20 SO₂-, -SO₂-O-, -O-SO₃-, -SO₃-O-, -CO-O-, -O-CO-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-,
- 21 -N(alkyl)-CO-, or a bond; and Z is alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl,

- 22 cycloalkenyl, heterocycloalkenyl, aryl, heteroaryl, aralkyl, or heteroaralkyl, and is
- 23 optionally substituted with hydroxy, alkoxy, amino, halo, sulfonic acid, -O-sulfonic acid,
- 24 carboxyl, oxo, alkyloxycarbonyl, alkylcarbonyloxy, alkylaminocarbonyl,
- 25 alkylcarbonylamino, alkylcarbonyl, alkylsulfinyl, alkylsulfonyl, or alkylthio; or is -
- 26 CH(A)-B with A being a side chain of an amino acid, and B being hydrogen, -NR^aR^b, or -
- 27 COOR^c wherein each of R^a, R^b, and R^c, independently, is hydrogen or alkyl; and
- 28 n is 0, 1, or 2;
- 29 provided that when Z is substituted with carboxyl or alkyloxycarbonyl, Y is a
- 30 bond and either X or Z contains at least one double bond, and that when Y is a bond,
- either X is -NH-alkyl-, -NH-alkenyl-, -N(alkyl)-alkyl-, -N(alkyl)-alkenyl-, -O-alkyl-, -O-
- 32 alkenyl-, -S-alkyl-, or -S-alkenyl-; or Z is substituted with halo, sulfonic acid, -O-sulfonic
- 33 acid, alkylsulfinyl, or alkylsulfonyl, or is alkenyl;
- 34 or a salt thereof.
- 1 2. The compound of claim 1, wherein n is 0.
- 1 3. The compound of claim 1, wherein R³ is amino, carboxyl, halo, sulfonic acid, -O-
- sulfonic acid, or alkyl; R⁶ is hydroxy, amino, carboxyl, halo, sulfonic acid, -O-
- sulfonic acid, or alkyl; and each of R^3 and R^6 , independently, is in the α -
- 4 configuration.
- 1 4. The compound of claim 1, wherein R^5 is hydrogen and is in the β -configuration.
- 1 5. The compound of claim 1, wherein R^3 is oxo; each of R^1 , R^2 , R^4 , R^4 , R^6 , R^7 , R^{11} , R^{12} ,
- 2 R¹⁵, R¹⁶, and R¹⁷, independently, is hydrogen, hydroxy, oxo, halo, sulfonic acid, -O-
- 3 sulfonic acid, or alkyl.

- 1 6. The compound of claim 5, wherein each of R¹, R², R⁴, R⁴, R⁶, R⁷, R¹¹, R¹², R¹⁵, R¹⁶,
- and R¹⁷, independently, is hydrogen, hydroxy, or oxo; and each of R⁵, R⁸, R⁹, R¹⁰,
- 3 R¹³, and R¹⁴, independently, is hydrogen or hydroxy; or a salt thereof.
- 1 7. The compound of claim 6, wherein X is a bond or alkyl.
- 8. The compound of claim 7, wherein Y is -C(=O)-NH- or -NH-C(=O)-; and Z is -
- 2 CH(A)-B with A being a side chain of Tyr or Phe, and B being -NR^aR^b or -COOR^c
- 1 9. The compound of claim 1, wherein X is a bond or alkyl.
- 1 10. The compound of claim 9, wherein Y is -C(=O)-NH- or -NH-C(=O)-; and Z is -
- 2 CH(A)-B with A being a side chain of Tyr or Phe, and B being -NR^aR^b or -COOR^c
- 1 11. The compound of claim 6, wherein Y is -CO-, -O-SO₂-, -SO₂-O-, -O-SO₃-, -SO₃-O-, -
- 2 CO-NH-, -NH-CO-, or a bond.
- 1 12. The compound of claim 11, wherein Z is alkyl, alkenyl, aryl, heteroaryl, aralkyl, or
- 2 heteroaralkyl, and is optionally substituted with hydroxy, alkoxy, halo, sulfonic acid,
- 3 carboxyl, -O-sulfonic acid, alkylsulfinyl, or alkylsulfonyl; or is -CH(A)-B.
- 1 13. The compound of claim 1, wherein Z is alkyl or aryl, each of which being optionally
- 2 substituted with hydroxy; or is -CH(A)-B with A being an amino acid side chain
- having an aromatic moiety, and B being -NR^aR^b, or -COOR^c.
- 14. The compound of claim 1, wherein R¹⁷ contains a straight chain having 6-20 chain
- 2 atoms.

1 15. The compound of claim 14, wherein R¹⁷ contains a straight chain having 8-16 chain

2 atoms.

1 16. The compound of claim 1, wherein X is -CH(CH₃)-CH₂-, Y is a bond, and Z is -CH₂-

2 CH=C(R')(CH₃) with R' being hydroxy, alkoxy, amino, halo, sulfonic acid, -O-

3 sulfonic acid, carboxyl, oxo, alkyloxycarbonyl, alkylcarbonyloxy,

alkylaminocarbonyl, alkylcarbonylamino, alkylcarbonyl, alkylsulfinyl, alkylsulfonyl,

5 or alkylthio.

1 17. The compound of claim 1, wherein said compound

2 is:

or

(23)

Ĥ ÖH

3

18. A compound of the following formula:

$$R^{10}$$
 R^{10}
 R

2

wherein

each of R^1 , R^2 , R^3 , R^4 , R^4 , R^6 , R^7 , R^{11} , R^{12} , R^{15} , R^{16} , and R^{17} , independently, is

5 hydrogen, hydroxy, amino, carboxyl, oxo, halo, sulfonic acid, -O-sulfonic acid, or alkyl

6 that is optionally inserted with -NH-, -N(alkyl)-, -O-, -S-, -SO₂-, -O-SO₂-, -SO₂-O-,

7 -O-SO₃-, -SO₃-O-, -CO-, -CO-O-, -O-CO-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-, or -

8 N(alkyl)-CO-, and further optionally substituted with hydroxy, halo, amino, carboxyl,

9 sulfonic acid, or -O-sulfonic acid;

each of R⁵, R⁸, R⁹, R¹⁰, R¹³, and R¹⁴, independently, is hydrogen, alkyl, haloalkyl,

11 hydroxyalkyl, alkoxy, hydroxy, or amino;

12 R¹⁷ is -X-Y-Z, in which X is a bond, or alkyl or alkenyl, optionally inserted with -

13 NH-, -N(alkyl)-, -O-, or -S-, and further optionally forming a cyclic moiety with R¹⁶ and

14 the 2 ring carbon atoms to which R¹⁶ and R¹⁷ are bonded; Y is -CO-, -SO-, -SO₂-, -O-

15 SO₂-, -SO₂-O-, -O-SO₃-, -SO₃-O-, -CO-O-, -O-CO-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-,

-N(alkyl)-CO-, or a bond; and Z is alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl,

17 cycloalkenyl, heterocycloalkenyl, aryl, heteroaryl, aralkyl, or heteroaralkyl, and is

optionally substituted with hydroxy, alkoxy, amino, halo, sulfonic acid, -O-sulfonic acid,

19 carboxyl, oxo, alkyloxycarbonyl, alkylcarbonyloxy, alkylaminocarbonyl,

- 20 alkylcarbonylamino, alkylcarbonyl, alkylsulfinyl, alkylsulfonyl, or alkylthio; or is -
- 21 CH(A)-B with A being an amino acid side chain containing an aromatic moiety, and B
- being hydrogen, -NR^aR^b, or -COOR^c wherein each of R^a, R^b, and R^c, independently, is
- 23 hydrogen or alkyl; and
- 24 n is 0, 1, or 2;
- 25 provided that when Z is substituted with carboxyl or alkyloxycarbonyl, Y is a
- bond and either X or Z contains at least one double bond, and that when Y is a bond,
- 27 either X is -NH-alkyl-, -NH-alkenyl-, -N(alkyl)-alkyl-, -N(alkyl)-alkenyl-, -O-alkyl-, -O-
- 28 alkenyl-, -S-alkyl-, or -S-alkenyl-; or Z is substituted with halo, sulfonic acid, -O-sulfonic
- 29 acid, alkylsulfinyl, or alkylsulfonyl, or is alkenyl;
- 30 or a salt thereof.
 - 1 19. The compound of claim 18, wherein n is 0.
 - 1 20. The compound of claim 18, wherein each of R³ and R⁶, independently, is hydroxy,
- amino, carboxyl, halo, sulfonic acid, -O-sulfonic acid, or alkyl, and is in the α -
- 3 configuration.
- 1 21. The compound of claim 18, wherein R^5 is hydrogen and is in the β -configuration.
- 1 22. The compound of claim 18, wherein each of R¹, R², R³, R⁴, R⁴, R⁶, R⁷, R¹¹, R¹², R¹⁵,
- 2 R¹⁶, and R¹⁷, independently, is hydrogen, hydroxy, oxo, halo, sulfonic acid, -O-
- 3 sulfonic acid, or alkyl.
- 1 23. The compound of claim 22, wherein each of R¹, R², R³, R⁴, R⁴, R⁶, R⁷, R¹¹, R¹², R¹⁵,
- 2 R¹⁶, and R¹⁷, independently, is hydrogen, hydroxy, or oxo; and each of R⁵, R⁸, R⁹,
- R^{10} , R^{13} , and R^{14} , independently, is hydrogen or hydroxy.

- 1 24. The compound of claim 23, wherein X is a bond or alkyl.
- 1 25. The compound of claim 24, wherein Y is -C(=O)-NH- or -NH-C(=O)-; and Z is -
- 2 CH(A)-B with A being a side chain of Tyr or Phe, and B being -NR^aR^b or -COOR^c
- 1 26. The compound of claim 18, wherein X is a bond or alkyl.
- 1 27. The compound of claim 26, wherein Y is -C(=O)-NH- or -NH-C(=O)-; and Z is -
- 2 CH(A)-B with A being a side chain of Tyr or Phe, and B being -NR^aR^b or -COOR^c
- 1 28. The compound of claim 18, wherein Y is -CO-, -O-SO₂-, -SO₂-O-, -O-SO₃-, -SO₃-O-,
- 2 -CO-NH-, -NH-CO-, or a bond.
- 1 29. The compound of claim 28, wherein Z is alkyl, alkenyl, aryl, heteroaryl, aralkyl, or
- 2 heteroaralkyl, and is optionally substituted with hydroxy, alkoxy, halo, sulfonic acid,
- 3 carboxyl, -O-sulfonic acid, alkylsulfinyl, or alkylsulfonyl; or is -CH(A)-B.
- 1 30. The compound of claim 18, wherein Z is alkyl or aryl, each of which being optionally
- 2 substituted with hydroxy; or is -CH(A)-B with A being an amino acid side chain
- having an aromatic moiety, and B being -NR^aR^b, or -COOR^c.
- 1 31. The compound of claim 18, wherein R¹⁷ contains a straight chain having 6-20 chain
- 2 atoms.
- 1 32. The compound of claim 31, wherein R¹⁷ contains a straight chain having 8-16 chain
- 2 atoms.

- 1 33. The compound of claim 18, wherein X is -CH(CH₃)-CH₂-, Y is a bond, and Z is -
- 2 CH₂-CH=C(R')(CH₃) with R' being hydroxy, alkoxy, amino, halo, sulfonic acid, -O-
- 3 sulfonic acid, carboxyl, oxo, alkyloxycarbonyl, alkylcarbonyloxy,
- 4 alkylaminocarbonyl, alkylcarbonylamino, alkylcarbonyl, alkylsulfinyl, alkylsulfonyl,
- 5 or alkylthio.

1 34. The compound of claim 18, wherein said compound is:

1 35. A compound of the following formula:

2

$$R^{10}$$
 R^{10}
 R^{10}

3

4 wherein

each of R^1 , R^2 , R^3 , R^4 , R^4 , R^6 , R^7 , R^{11} , R^{12} , R^{15} , R^{16} , and R^{17} , independently, is

6 hydrogen, hydroxy, amino, carboxyl, oxo, halo, sulfonic acid, -O-sulfonic acid, or alkyl

7 optionally inserted with -NH-, -N(alkyl)-, -O-, -S-, -SO-, -SO₂-, -O-SO₂-, -SO₂-O-, -O-

8 SO₃-, -SO₃-O-, -CO-, -CO-O-, -O-CO-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-, or -

9 N(alkyl)-CO-, and further optionally substituted with hydroxy, halo, amino, carboxyl,

10 sulfonic acid, or -O-sulfonic acid;

each of R⁵, R⁸, R⁹, R¹⁰, R¹³, and R¹⁴, independently, is hydrogen, alkyl, haloalkyl,

12 hydroxyalkyl, alkoxy, hydroxy, or amino;

- 13 R¹⁷ is -X-Y-Z, in which X is a bond, or alkyl or alkenyl, optionally inserted with
- -NH-, -N(alkyl)-, -O-, or -S-, and further optionally forming a cyclic moiety with R¹⁶ and
- 15 the 2 ring carbon atoms to which R¹⁶ and R¹⁷ are bonded; Y is -CO-, -SO-, -SO₂-, -O-
- 16 SO₂-, -SO₂-O-, -O-SO₃-, -SO₃-O-, -CO-O-, -O-CO-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-,
- 17 -N(alkyl)-CO-, or a bond; and Z is alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl,
- 18 cycloalkenyl, heterocycloalkenyl, aryl, heteroaryl, aralkyl, or heteroaralkyl, and is
- optionally substituted with hydroxy, alkoxy, amino, halo, sulfonic acid, -O-sulfonic acid,
- 20 carboxyl, oxo, alkyloxycarbonyl, alkylcarbonyloxy, alkylaminocarbonyl,
- 21 alkylcarbonylamino, alkylcarbonyl, alkylsulfinyl, alkylsulfonyl, or alkylthio; or is -
- 22 CH(A)-B with A being a side chain of an amino acid, and B being hydrogen, -NR^aR^b, or -
- 23 COOR^c wherein each of R^a, R^b, and R^c, independently, is hydrogen or alkyl; and
- 24 n is 0, 1, or 2;
- provided that when Z is substituted with carboxyl or alkyloxycarbonyl, Y is a
- bond and either X or Z contains at least one double bond, and that when Y is a bond,
- either X is -NH-alkyl-, -NH-alkenyl-, -N(alkyl)-alkyl-, -N(alkyl)-alkenyl-, -O-alkyl-, -O-
- 28 alkenyl-, -S-alkyl-, or -S-alkenyl-; or Z is substituted with halo, sulfonic acid, -O-sulfonic
- 29 acid, alkylsulfinyl, or alkylsulfonyl, or is alkenyl; and
- further provided that at least one of R³ and R⁴, R⁴ and R⁵, R⁵ and R⁶, R⁷ and R⁸,
- 31 R^{12} and R^{13} , and R^{15} and R^{16} , independently, is deleted to form a double bond;
- 32 or a salt thereof.
- 1 36. The compound of claim 35, wherein at least one of R³ and R⁴, R⁴ and R⁵, R¹² and R¹³,
- and R¹⁵ and R¹⁶, independently, is deleted to form a double bond.
- 1 37. The compound of claim 35, wherein n is 0.

- 1 38. The compound of claim 35, wherein R³ is hydroxy, amino, carboxyl, halo, sulfonic
- 2 acid, -O-sulfonic acid, or alkyl, and is in the α -configuration.
- 1 39. The compound of claim 35, wherein each of R¹, R², R³, R⁴, R⁴, R⁶, R⁷, R¹¹, R¹², R¹⁵,
- 2 R¹⁶, and R¹⁷, independently, is hydrogen, hydroxy, oxo, halo, sulfonic acid, -O-
- 3 sulfonic acid, or alkyl.
- 1 40. The compound of claim 39, wherein each of R^1 , R^2 , R^3 , R^4 , R^4 , R^6 , R^7 , R^{11} , R^{12} , R^{15} ,
- 2 R¹⁶, and R¹⁷, independently, is hydrogen, hydroxy, or oxo; and each of R⁵, R⁸, R⁹,
- R^{10} , R^{13} , and R^{14} , independently, is hydrogen or hydroxy.
- 1 41. The compound of claim 40, wherein X is a bond or alkyl.
- 1 42. The compound of claim 41, wherein Y is -C(=O)-NH- or -NH-C(=O)-; and Z is -
- 2 CH(A)-B with A being a side chain of Tyr or Phe, and B being -NR^aR^b or -COOR^c
- 1 43. The compound of claim 35, wherein X is a bond or alkyl.
- 1 44. The compound of claim 35, wherein Y is -CO-, -O-SO₂-, -SO₂-O-, -O-SO₃-, -SO₃-O-,
- 2 -CO-NH-, -NH-CO-, or a bond.
- 1 45. The compound of claim 35, wherein Z is alkyl or aryl, each of which being optionally
- 2 substituted with hydroxy; or is -CH(A)-B with A being an amino acid side chain
- having an aromatic moiety, and B being -NR^aR^b, or -COOR^c.
- 1 46. The compound of claim 35, wherein R¹⁷ contains a straight chain having 6-20 chain
- 2 atoms.

- 47. The compound of claim 46, wherein R¹⁷ contains a straight chain having 8-16 chain
- 2 atoms.
- 1 48. The compound of claim 35, wherein X is -CH(CH₃)-CH₂-, Y is a bond, and Z is -
- 2 CH₂-CH=C(R')(CH₃) with R' being hydroxy, alkoxy, amino, halo, sulfonic acid, -O-
- sulfonic acid, carboxyl, oxo, alkyloxycarbonyl, alkylcarbonyloxy,
- 4 alkylaminocarbonyl, alkylcarbonylamino, alkylcarbonyl, alkylsulfinyl, alkylsulfonyl,
- 5 or alkylthio.
- 1 49. The compound of claim 35, wherein Z is alkenyl, alkynyl, cycloalkyl,
- 2 heterocycloalkyl, cycloalkenyl, heterocycloalkenyl, aryl, heteroaryl, aralkyl, or
- 3 heteroaralkyl.
- 1 50. The compound of claim 49, wherein n is 0.
- 1 51. The compound of claim 49, wherein R³ is hydroxy, amino, carboxyl, halo, sulfonic
- 2 acid, -O-sulfonic acid, or alkyl, and is in the α -configuration.
- 1 52. The compound of claim 49, wherein each of R^1 , R^2 , R^3 , R^4 , R^4 , R^6 , R^7 , R^{11} , R^{12} , R^{15} ,
- 2 R¹⁶, and R¹⁷, independently, is hydrogen, hydroxy, oxo, halo, sulfonic acid, -O-
- 3 sulfonic acid, or alkyl.
- 1 53. The compound of claim 52, wherein each of R^1 , R^2 , R^3 , R^4 , R^4 , R^6 , R^7 , R^{11} , R^{12} , R^{15} ,
- 2 R¹⁶, and R¹⁷, independently, is hydrogen, hydroxy, or oxo; and each of R⁵, R⁸, R⁹,
- R^{10} , R^{13} , and R^{14} , independently, is hydrogen or hydroxy.
- 1 54. The compound of claim 53, wherein X is a bond or alkyl.

- 1 55. The compound of claim 54, wherein Y is -C(=O)-NH- or -NH-C(=O)-; and Z is -
- 2 CH(A)-B with A being a side chain of Tyr or Phe, and B being -NR^aR^b or -COOR^c
- 1 56. The compound of claim 49, wherein X is a bond or alkyl.
- 1 57. The compound of claim 56, wherein Y is -C(=O)-NH- or -NH-C(=O)-; and Z is -
- 2 CH(A)-B with A being a side chain of Tyr or Phe, and B being -NR^aR^b or -COOR^c
- 1 58. The compound of claim 49, wherein Y is -CO-, -O-SO₂-, -SO₂-O-, -O-SO₃-, -SO₃-O-,
- 2 -CO-NH-, -NH-CO-, or a bond.
- 1 59. The compound of claim 49, wherein R¹⁷ contains a straight chain having 6-20 chain
- 2 atoms.
- 1 60. The compound of claim 59, wherein R¹⁷ contains a straight chain having 8-16 chain
- 2 atoms.
- 1 61. The compound of claim 49, wherein X is -CH(CH₃)-CH₂-, Y is a bond, and Z is -
- 2 CH₂-CH=C(R')(CH₃) with R' being hydroxy, alkoxy, amino, halo, sulfonic acid, -O-
- 3 sulfonic acid, carboxyl, oxo, alkyloxycarbonyl, alkylcarbonyloxy,
- alkylaminocarbonyl, alkylcarbonylamino, alkylcarbonyl, alkylsulfinyl, alkylsulfonyl,
- 5 or alkylthio.

1 62. The compound of claim 49, wherein said compound

2 is:

3

- 1 63. A pharmaceutical composition for treating a UR- or a LXR-mediated disorder, said
- 2 composition comprising a pharmaceutically acceptable carrier and an effective
- amount of a compound of the following formula:

$$R^{12}$$
 R^{13}
 R^{17}
 R^{16}
 R^{10}
 R

5 wherein

4

R³ is hydrogen, amino, carboxyl, oxo, halo, sulfonic acid, -O-sulfonic acid, or

7 alkyl that is optionally inserted with -NH-, -N(alkyl)-, -O-, -S-, -SO-, -SO₂-, -O-SO₂-, -

9 or -N(alkyl)-CO-, and further optionally substituted with hydroxy, halo, amino, carboxyl,

10 sulfonic acid, or -O-sulfonic acid;

each of R^1 , R^2 , R^4 , R^4 , R^6 , R^7 , R^{11} , R^{12} , R^{15} , R^{16} , and R^{17} , independently, is

12 hydrogen, hydroxy, amino, carboxyl, oxo, halo, sulfonic acid, -O-sulfonic acid, or alkyl

that is optionally inserted with -NH-, -N(alkyl)-, -O-, -S-, -SO-, -SO₂-, -O-SO₂-, -SO₂-O-,

14 -O-SO₃-, -SO₃-O-, -CO-, -CO-O-, -O-CO-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-, or -

15 N(alkyl)-CO-, and further optionally substituted with hydroxy, halo, amino, carboxyl,

sulfonic acid, or –O-sulfonic acid;

- each of R⁵, R⁸, R⁹, R¹⁰, R¹³, and R¹⁴, independently, is hydrogen, alkyl, haloalkyl,
- 18 hydroxyalkyl, alkoxy, hydroxy, or amino;
- 19 R¹⁷ is -X-Y-Z, in which X is a bond, or alkyl or alkenyl, optionally inserted with -
- 20 NH-, -N(alkyl)-, -O-, or -S-, and further optionally forming a cyclic moiety with R¹⁶ and
- 21 the 2 ring carbon atoms to which R¹⁶ and R¹⁷ are bonded; Y is -CO-, -SO-, -SO₂-, -O-
- 22 SO₂-, -SO₂-O-, -O-SO₃-, -SO₃-O-, -CO-O-, -O-CO-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-,
- 23 -N(alkyl)-CO-, or a bond; and Z is alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl,
- 24 cycloalkenyl, heterocycloalkenyl, aryl, heteroaryl, aralkyl, or heteroaralkyl, and is
- optionally substituted with hydroxy, alkoxy, amino, halo, sulfonic acid, -O-sulfonic acid,
- 26 carboxyl, oxo, alkyloxycarbonyl, alkylcarbonyloxy, alkylaminocarbonyl,
- 27 alkylcarbonylamino, alkylcarbonyl, alkylsulfinyl, alkylsulfonyl, or alkylthio; or is -
- 28 CH(A)-B with A being a side chain of an amino acid, and B being hydrogen, -NR^aR^b, or -
- 29 COOR^c wherein each of R^a, R^b, and R^c, independently, is hydrogen or alkyl; and
- n is 0, 1, or 2;
- provided that when Z is substituted with carboxyl or alkyloxycarbonyl, Y is a
- 32 bond and either X or Z contains at least one double bond, and that when Y is a bond,
- either X is -NH-alkyl-, -NH-alkenyl-, -N(alkyl)-alkyl-, -N(alkyl)-alkenyl-, -O-alkyl-, -O-
- alkenyl-, -S-alkyl-, or -S-alkenyl-; or Z is substituted with halo, sulfonic acid, -O-sulfonic
- acid, alkylsulfinyl, or alkylsulfonyl, or is alkenyl;
- 36 or a salt thereof.

1 64. The composition of claim 63, wherein said compound

2 is:

3

or

1 65. A pharmaceutical composition for treating a UR- or a LXR-mediated disorder, said

2 composition comprising a pharmaceutically acceptable carrier and an effective

amount of a compound of the following formula:

$$R^{1}$$
 R^{10}
 $R^$

5 wherein

4

each of R¹, R², R³, R⁴, R⁴, R⁶, R⁷, R¹¹, R¹², R¹⁵, R¹⁶, and R¹⁷, independently, is

7 hydrogen, hydroxy, amino, carboxyl, oxo, halo, sulfonic acid, -O-sulfonic acid, or alkyl

8 that is optionally inserted with -NH-, -N(alkyl)-, -O-, -S-, -SO-, -SO₂-, -O-SO₂-, -SO₂-O-,

9 -O-SO₃-, -SO₃-O-, -CO-, -CO-O-, -O-CO-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-, or -

10 N(alkyl)-CO-, and further optionally substituted with hydroxy, halo, amino, carboxyl,

11 sulfonic acid, or -O-sulfonic acid;

each of R⁵, R⁸, R⁹, R¹⁰, R¹³, and R¹⁴, independently, is hydrogen, alkyl, haloalkyl,

13 hydroxyalkyl, alkoxy, hydroxy, or amino;

14 R^{17} is -X-Y-Z, in which X is a bond, or alkyl or alkenyl, optionally inserted with -

15 NH-, -N(alkyl)-, -O-, or -S-, and further optionally forming a cyclic moiety with R¹⁶ and

the 2 ring carbon atoms to which R¹⁶ and R¹⁷ are bonded; Y is -CO-, -SO-, -SO₂-, -O-

17 SO₂-, -SO₂-O-, -O-SO₃-, -SO₃-O-, -CO-O-, -O-CO-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-,

-N(alkyl)-CO-, or a bond; and Z is alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl,

19 cycloalkenyl, heterocycloalkenyl, aryl, heteroaryl, aralkyl, or heteroaralkyl, and is

20 substituted with hydroxy, alkoxy, amino, halo, sulfonic acid, -O-sulfonic acid, carboxyl,

oxo, alkyloxycarbonyl, alkylcarbonyloxy, alkylaminocarbonyl, alkylcarbonylamino,

22 alkylcarbonyl, alkylsulfinyl, alkylsulfonyl, or alkylthio; or is -CH(A)-B with A being an

- 23 amino acid side chain containing an aromatic moiety, and B being hydrogen, -NRaRb, or -
- 24 COOR^c wherein each of R^a, R^b, and R^c, independently, is hydrogen or alkyl; and
- 25 n is 0, 1, or 2;
- provided that when Z is substituted with carboxyl or alkyloxycarbonyl, Y is a
- 27 bond and either X or Z contains at least one double bond, and that when Y is a bond,
- 28 either X is -NH-alkyl-, -NH-alkenyl-, -N(alkyl)-alkyl-, -N(alkyl)-alkenyl-, -O-alkyl-, -O-
- 29 alkenyl-, -S-alkyl-, or -S-alkenyl-; or Z is substituted with halo, sulfonic acid, -O-sulfonic
- 30 acid, alkylsulfinyl, or alkylsulfonyl, or is alkenyl;
- 31 or a salt thereof.
 - 1 66. The composition of claim 65, wherein said compound is:

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- 1 67. A pharmaceutical composition for treating a UR- or a LXR-mediated disorder, said
- 2 composition comprising a pharmaceutically acceptable carrier and an effective
- amount of a compound of the following formula:

$$R^{10}$$
 R^{10}
 R

5 wherein

4

each of R^1 , R^2 , R^3 , R^4 , R^4 , R^6 , R^7 , R^{11} , R^{12} , R^{15} , R^{16} , and R^{17} , independently, is

7 hydrogen, hydroxy, amino, carboxyl, oxo, halo, sulfonic acid, -O-sulfonic acid, or alkyl

8 optionally inserted with -NH-, -N(alkyl)-, -O-, -S-, -SO-, -SO₂-, -O-SO₂-, -SO₂-, -O-SO₂-, -O-SO₂

9 SO₃-, -SO₃-O-, -CO-, -CO-O-, -O-CO-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-, or -

10 N(alkyl)-CO-, and further optionally substituted with hydroxy, halo, amino, carboxyl,

11 sulfonic acid, or -O-sulfonic acid;

each of R⁵, R⁸, R⁹, R¹⁰, R¹³, and R¹⁴, independently, is hydrogen, alkyl, haloalkyl,

13 hydroxyalkyl, alkoxy, hydroxy, or amino;

14 R¹⁷ is -X-Y-Z, in which X is a bond, or alkyl or alkenyl, optionally inserted with

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Docket No.: 10634-002001
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- 15 -NH-, -N(alkyl)-, -O-, or -S-, and further optionally forming a cyclic moiety with R¹⁶ and
- the 2 ring carbon atoms to which R¹⁶ and R¹⁷ are bonded; Y is -CO-, -SO-, -SO₂-, -O-
- 17 SO₂-, -SO₂-O-, -O-SO₃-, -SO₃-O-, -CO-O-, -O-CO-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-,
- -N(alkyl)-CO-, or a bond; and Z is hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl,
- 19 heterocycloalkyl, cycloalkenyl, heterocycloalkenyl, aryl, heteroaryl, aralkyl, or
- 20 heteroaralkyl, and is optionally substituted with hydroxy, alkoxy, amino, halo, sulfonic
- 21 acid, -O-sulfonic acid, carboxyl, oxo, alkyloxycarbonyl, alkylcarbonyloxy,
- 22 alkylaminocarbonyl, alkylcarbonylamino, alkylcarbonyl, alkylsulfinyl, alkylsulfonyl, or
- 23 alkylthio; or is -CH(A)-B with A being a side chain of an amino acid, and B being
- 24 hydrogen, -NR^aR^b, or -COOR^c wherein each of R^a, R^b, and R^c, independently, is
- 25 hydrogen or alkyl; and
- 26 n is 0, 1, or 2;
- 27 provided that when Z is substituted with carboxyl or alkyloxycarbonyl, Y is a
- bond and either X or Z contains at least one double bond, and that when Y is a bond,
- either X is -NH-alkyl-, -NH-alkenyl-, -N(alkyl)-alkyl-, -N(alkyl)-alkenyl-, -O-alkyl-, -O-
- 30 alkenyl-, -S-alkyl-, or -S-alkenyl-; or Z is substituted with halo, sulfonic acid, -O-sulfonic
- acid, alkylsulfinyl, or alkylsulfonyl, or is alkenyl; and further provided that at least one of
- 32 R³ and R⁴, R⁴ and R⁵, R⁵ and R⁶, R⁷ and R⁸, R¹² and R¹³, and R¹⁵ and R¹⁶, independently,
- 33 is deleted to form a double bond;
- 34 or a salt thereof.
- 1 68. The composition of claim 67, wherein said compound is:

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- 54 -